

GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: September 18, 2002, 22:26:45 ; Search time 8826.93 seconds
(without alignments)
11851.432 Million cell updates/sec

Title: US-09-645-593-8

Perfect score: 4999

Sequence: 1 ctcaagcatacgacaagg.....tcnattgtanattgnccttg 4999

Scoring table: OLIGO_NUC
Gapop 60.0 , Gapext 60.0

Searched: 1797656 seqs, 10463268293 residues

Word size : 0

Total number of hits satisfying chosen parameters: 3595312

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database :

GenEmbl.*

1: gb.ba.*
2: gb.htg.*
3: gb.in.*
4: gb.om.*
5: gb.ov.*
6: gb.pat.*
7: gb.ph.*
8: gb.pl.*
9: gb.pr.*
10: gb.ro.*
11: gb.sts.*
12: gb.sy.*
13: gb.un.*
14: gb.vi.*
15: em.ba.*
16: em.fun.*
17: em.hum.*
18: em.in.*
19: em.mu.*
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21: em.or.*
22: em.ov.*
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26: em.ro.*
27: em.sts.*
28: em.un.*
29: em.vi.*
30: em.htg.hum.*
31: em.htg.inv.*
32: em.htg.other.*
33: em.htggo.inv.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	4399	100.0	4999	6	AX089358	Sequence
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3	25	0.5	113725	2	AC108615	Rattus no
c	4	0.5	138733	9	AL136233	Human DNA
5	24	0.5	32	6	AX089372	Sequence
6	24	0.5	1683	8	AF240004	Sesamum i
7	24	0.5	133108	2	AC034196	Homo sapi
8	24	0.5	148598	2	AC022096	Homo sapi
c	9	0.5	152602	2	AC026193	Homo sapi
10	24	0.5	162433	2	AC024377	Homo sapi
c	11	0.5	163272	2	AC018496	Homo sapi
12	24	0.5	165077	2	AC026190	Homo sapi
c	13	0.5	169770	9	AC027763	Homo sapi
14	24	0.5	173878	2	AC040977	Homo sapi
c	15	0.5	176217	9	AC034192	Homo sapi
16	24	0.5	176219	9	AC087090	Homo sapi
17	24	0.5	191050	2	AC073565	Mus muscu
18	24	0.5	202704	10	AC090843	Mus muscu
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20	23	0.5	420	5	AF013235	Quiscatus
c	21	0.5	606	5	AB067610	Ophthalmo
22	23	0.5	804	3	DDITC4RAN	L09720 Dictyosteli
23	23	0.5	1738	3	DMG43737	U43737 Drosophila
24	23	0.5	1905	8	PATPRU1	X78119 P.amygdalus
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27	23	0.5	42265	9	AC010504	AC010504 Homo sapi
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ALIGNMENTS

RESULT 1
AX089358
LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
flax.
Linum usitatissimum
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
Rosidae; eurosids I; Malpighiales; Linaceae; Linum.
1 (bases 1 to 4999)
Chaudhary,S., van Rooijen,G., Moloney,M.M. and Singh,S.
Flax seed specific promoters
Patent: WO 0116340-A 8 08-MAR-2001;
SemiSys Genetics Inc. (CA); COMMONWEALTH SCIENTIFIC AND
INDUSTRIAL RESEARCH ORGANISATION (AU)
Location/Qualifiers
1..4999
/organism="Linum usitatissimum"
/db_xref="taxon:4006"

FEATURES
source
1..4999

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DB 3121 CATGAGACTAATTGAGAACATCGGCGATCTTCTTCGGGCGACATTTTCTACTCCAGAACG 3180

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RESULT 2
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LOCUS Rattus norvegicus clone CH230-10M9, *** SEQUENCING IN PROGRESS ***
DEFINITION 17 unordered pieces.
AC095913
VERSION AC095913.3 GI:17943549
KEYWORDS HTG; HTGS; PHASE1.
SOURCE Norway rat.
ORGANISM Rattus norvegicus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
Rattus.
1 (bases 1 to 26541)
Muzny,D.M., Adams,C., Adio-Oduola,B., Ali-Osman,F.R., Allen,C.,
Alsbrooks,S.L., Anaratunge,H.C., Are,J.R., Banks,T., Barbaria,J.,
Benton,J., Bimege,K., Blankenburg,K., Bonnin,D., Bouck,J.,
Bowie,S., Brieval,M., Brown,E., Brown,M., Bryant,N.P., Buhay,C.,
Burch,P., Burkett,C., Burrell,K.L., Byrd,N.C., Carron,F.F.,
Carter,M., Cavazos,S.R., Chacko,J., Chavez,D., Chen,G., Chen,R.,
Chen,Z., Chowdhry,I., Christopoulos,C., Cleveland,C.D., Cox,C.,

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Coyle,M.D., Dathorne,S.R., David,R., Davila,M.L., Davis,C.,
Davy-Carroll,L., Dederich,D.A., Delaney,K.R., Delgado,O.,
Denn,A.L., Ding,Y., Dinh,H.H., Douthwaite,K.J., Draper,H.,
Dugan-Rocha,S., Durbin,K.J., Earhart,C., Edgar,D., Edwards,C.C.,
Elhaj,C., Escotto,M., Falls,A., Gao,J., Garcia,A., Garner,T.,
Foster,P., Frantz,P., Gabrieli,A., Hart,M., Havlak,P., Hawes,A.,
Hamilton,K., Harris,C., Harris,K., Hart,M., Havlak,P., Hawes,A.,
Hernandez,J., Hernandez,O., Hodgson,A., Hogues,M., Holloway,C.,
Hollins,B., Homs,F., Howard,S., Huber,J., Hulyk,S., Hume,J.,
Jackson,L.E., Jacobson,B., Jia,Y., Johnson,R., Jollivel,S.,
Joudav,S., Karlsson,E., Kelly,S., Khan,U., King,L., Korvah,J.,
Kovach,C., Kratovic,J., Kureshi,A., Landry,N., Leal,B., Lewis,L.C.,
Lewis,L., Li,J., Li,Z., Lichtarge,O., Lieu,C., Liu,J., Liu,W.,
Louliseed,H., Lozano,R.J., Lu,X., Lucier,A., Lucier,R., Luna,R.,
Ma,J., Maheshwari,M., Mapua,P., Martin,R., Martindale,A.,
Martinez,E., Massey,E., Mawhney,E., McLeod,M.P., Meador,M.,
Mei,G., Metzker,M., Miner,G., Miner,Z., Mitchell,T., Mohabbat,K.,
Morgan,M., Morris,S., Moser,M., Neal,D., Newton,J., Newton,N.,
Nguyen,A., Nguyen,N., Nguyen,N., Nickerson,E., Nwokwenkwo,S.,
Ogih,M., Okunou,G., Oragunye,N., Oviedo,R., Pace,A., Payton,B.,
Peery,J., Perez,L., Peters,L., Pickens,R., Primus,E., Pu,L.L.,
Quiles,M., Ren,Y., Rives,M., Rojas,A., Rojebokan,I., Rolfe,M.,
Ruiz,S., Savary,G., Scherer,S., Scott,G., Shen,H., Shoshitari,N.,
Sisson,I., Sodergren,E., Sonaike,T., Sparks,A., Stanley,H.,
Stone,H., Sutton,A., Svatek,A., Tabor,P., Tamerisa,A., Tamerisa,K.,
Tang,H., Tansey,J., Taylor,C., Taylor,I., Telford,B., Thomas,N.,
Thomas,S., Usmani,K., Vasquez,L., Vera,V., Villalobos,D., Vinson,R.,
Wall,R., Wang,S., Ward-Moore,S., Warren,R., Washington,C.,
Watlington,S., Williams,G., Williamson,A., Wleczyk,K., Wooden,S.,
Worley,K., Wu,C., Wu,Y., Wu,Y.F., Zhou,J., Zorrilla,S., Nelson,D.,
Weinstock,G. and Gibbs,R.

Direct Submission
Unpublished
2 (bases 1 to 26541)
Worley,K.C.
Direct Submission
Submitted (17-SEP-2001) Human Genome Sequencing Center, Department
of Molecular and Human Genetics, Baylor College of Medicine, One
Baylor Plaza, Houston, TX 77030, USA
On Dec 20, 2001 this sequence version replaced gi:16901678.

----- Genome Center
Center: Baylor College of Medicine
Center code: BCM
Web site: http://www.hgsc.bcm.tmc.edu/
Contact: hgsc-help@bcm.tmc.edu
----- Project Information
Center project name: GDVO
Center clone name: CH230-10M9
----- Summary Statistics
Assembly program: Phrap; version 0.990329First call to
findPhrapList
Consensus quality: 13487 bases at least Q40
Consensus quality: 15808 bases at least Q30
Consensus quality: 17668 bases at least Q20
Estimated insert size: 10184; sum-of-contigs estimation
Quality coverage: 0x in Q20 bases; agarose-1p estimation
Quality coverage: 0.1x in Q20 bases; sum-of-contigs estimation
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* NOTE: Estimated insert size may differ from sequence length
* (see http://www.hgsc.bcm.tmc.edu/docs/Genbank_draft_data.html).
* NOTE: This is a 'working draft' sequence. It currently
* consists of 17 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.
* 1 1829: contig of 1829 bp in length
* 1830 1829: gap of unknown length
* 1830 3748: contig of 1819 bp in length
* 3749 3848: gap of unknown length

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TITLE
 JOURNAL
 REFERENCE
 AUTHORS
 TITLE
 JOURNAL
 COMMENT

* 3849 5491: contig of 1643 bp in length
 * 5492 5591: gap of unknown length
 * 5592 6820: contig of 1229 bp in length
 * 6821 9295: gap of unknown length
 * 9296 9395: contig of 2375 bp in length
 * 9396 10779: gap of unknown length
 * 10780 11955: contig of 1384 bp in length
 * 11956 12055: gap of unknown length
 * 12056 13528: contig of 1076 bp in length
 * 13529 13629: contig of 1473 bp in length
 * 13630 14871: gap of unknown length
 * 14872 16577: contig of 1242 bp in length
 * 16578 16678: gap of unknown length
 * 16679 17927: contig of 1607 bp in length
 * 17928 18027: gap of unknown length
 * 18028 19317: contig of 1250 bp in length
 * 19318 19317: contig of 1190 bp in length
 * 19319 20918: contig of unknown length
 * 20919 21018: contig of 1601 bp in length
 * 21019 22505: contig of 1487 bp in length
 * 22506 22605: gap of unknown length
 * 22606 24325: contig of 1720 bp in length
 * 24326 24425: gap of unknown length
 * 24426 25429: contig of 1004 bp in length
 * 25430 25529: gap of unknown length
 * 25530 26541: contig of 1012 bp in length.

FEATURES

Location/Qualifiers
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 /organism="Rattus norvegicus"
 /db_xref="taxon:10116"
 /clone="CH230-10M9"

BASE COUNT 6642 a 5472 c 5923 g 6839 t 1665 others
 ORIGIN

Query Match 0.5%: Score 25; DB 2; Length 26541;
 Best Local Similarity 100.0%; Pred. No. 0.11;
 Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3808 atatatgtaataataataataa 3832
 |||||||TGAATATAATAATAATAA 16215

RESULT 3

AC108615
 LOCUS Rattus norvegicus clone CH230-290E9, linear HTG 31-JAN-2002
 DEFINITION *** 62 unordered pieces. *** SEQUENCING IN PROGRESS
 AC108615
 VERSION AC108615.1 GI:18449450
 KEYWORDS HTG; HTGS_PHASE1.
 SOURCE Norway rat.
 ORGANISM Rattus norvegicus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
 Rattus.

REFERENCE

1 (bases 1 to 113725)
 Muzny, D.M., Adams, C., Adio-Oduola, B., Ali-Osman, F.R., Allen, C.,
 Alsbrooks, S.L., Amaratunge, H.C., Are, J.R., Ayele, M., Banks, T.,
 Barbaria, J., Benton, J., Bimaga, K., Blankenburg, K., Bonnin, D.,
 Bouck, J., Bowie, S., Brieva, M., Brown, E., Brown, M., Bryant, N.P.,
 Buhay, C., Burch, P., Burkett, C., Burrell, K.L., Byrd, N.C.,
 Carron, T.F., Carter, M., Cavazos, S.R., Chacko, J., Chavez, D.,
 Chen, G., Chen, R., Chen, Z., Chowdhry, I., Christopoulos, C.,
 Cleveland, C.D., Cox, C., Coyle, M.D., Dathorne, S.R., David, R.,
 Davila, M.L., Davis, C., Davy-Carroll, L., Dederich, D.A.,
 Delaney, K.R., Delgado, O., Denn, A.L., Ding, Y., Dinh, H.H.,
 Douthwaite, K.J., Draper, H., Dugan-Rocha, S., Durbin, K.J.,
 Earnhart, C., Edgar, D., Edwards, C.C., Elhaj, C., Escotto, M.,

Falls, T., Ferraguto, D., Flagg, N., Ford, J., Foster, P., Prantiz, P.,
 Gabisi, A., Gao, J., Garcia, A., Garner, T., Garza, N., Gill, K.,
 Gorrell, J.H., Guevara, W., Gunaratne, P., Hale, S., Hamilton, K.,
 Harris, C., Harris, K., Hart, M., Havlak, P., Hawes, A., Hernandez, J.,
 Hernandez, O., Hodgson, A., Hogues, M., Holloway, C., Hollins, B.,
 Homs, F., Howard, S., Huber, J., Hulyk, S., Hume, J., Jackson, L.E.,
 Jacobson, B., Jia, Y., Johnson, R., Jollivet, S., Joudah, S.,
 Karlsson, E., Kelly, S., Khan, U., King, L., Korvah, J., Kovar, C.,
 Kratovic, J., Kureshi, A., Landry, N., Leal, B., Lewis, L.C., Lewis, L.,
 Li, J., Li, Z., Lichtarge, O., Lieu, C., Liu, J., Liu, W., Louseged, H.,
 Lozano, R.J., Lu, X., Lucier, A., Lucier, R., Luna, R., Ma, J.,
 Maheshwari, M., Mapua, P., Martin, R., Martindale, A., Martinez, E.,
 Massey, E., Mawhney, E., McLeod, M.P., Meador, M., Mei, G., Metzker, M.,
 Miner, G., Miner, Z., Mitchell, T., Mohabbat, K., Morgan, M., Morris, S.,
 Moser, M., Neal, D., Newton, J., Newton, N., Nguyen, A., Nguyen, N.,
 Nguyen, N., Nickerson, E., Nwokenkwo, S., Ogih, M., Okwuonu, G.,
 Oragunye, N., Oviedo, R., Pace, A., Payton, B., Peery, J., Perez, L.,
 Peters, L., Pickens, R., Primus, E., Pu, L.L., Quiles, M., Ren, Y.,
 Rives, M., Rojas, A., Rojibokan, I., Rolfe, M., Ruiz, S., Savary, G.,
 Scherer, S., Scott, G., Shen, H., Shooshtari, N., Sisson, I.,
 Sodergren, E., Sonaik, T., Sparks, A., Stanley, H., Stone, H.,
 Sutton, A., Svatek, A., Tabor, P., Tamerisa, A., Tamerisa, K., Tang, H.,
 Tansey, J., Taylor, C., Taylor, T., Telford, B., Thomas, R., Thomas, S.,
 Usmani, K., Vasquez, L., Vera, V., Villalón, D., Vinson, R., Wall, R.,
 Wang, S., Ward-Moore, S., Warren, R., Washington, C., Watlington, S.,
 Williams, G., Williamson, A., Wleczek, R., Wooden, S., Worley, K.,
 Wu, C., Wu, Y., Wu, F.F., Zhou, J., Zorrilla, S., Nelson, D.,
 Weinstein, G., and Gibbs, R.
 Direct Submission
 Unpublished
 2 (bases 1 to 113725)
 Worley, K.C.
 Direct Submission
 Submitted (31-JAN-2002) Human Genome Sequencing Center, Department
 of Molecular and Human Genetics, Baylor College of Medicine, One
 Baylor Plaza, Houston, TX 77030, USA
 ----- Genome Center
 Center: Baylor College of Medicine
 Center code: BCM
 Web site: http://www.hgsc.bcm.tmc.edu/
 Contact: hgsc-help@bcm.tmc.edu
 ----- Project Information
 Center project name: GPOT
 Center clone name: CH230-290E9
 ----- Summary Statistics
 Sequencing vector: Plasmid: M77789
 Chemistry: Dye-terminator Big Dye; 100% of reads
 Assembly program: Phrap; version 0.990329 First call to
 findPhrapList
 Consensus quality: 87886 bases at least Q40
 Consensus quality: 94485 bases at least Q30
 Consensus quality: 99429 bases at least Q20
 Estimated insert size: 82890; sum-of-contigs estimation
 Quality coverage: 0x in Q20 bases; agarose-fp estimation
 Quality coverage: 1x in Q20 bases; sum-of-contigs estimation

 * NOTE: Estimated insert size may differ from sequence length
 * (see http://www.hgsc.bcm.tmc.edu/docs/genbank_draft_data.html).
 * NOTE: This is a 'working draft' sequence. It currently
 * consists of 62 contigs. The true order of the pieces
 * is not known and their order in this sequence record is
 * arbitrary. Gaps between the contigs are represented as
 * runs of N, but the exact sizes of the gaps are unknown.
 * This record will be updated with the finished sequence
 * as soon as it is available and the accession number will
 * be preserved.
 * 3973: contig of 3973 bp in length
 * 4073: gap of unknown length
 * 4074: contig of 3363 bp in length
 * 7437: gap of unknown length
 * 7537: contig of 3269 bp in length
 * 10806: gap of unknown length
 * 10906: contig of 2802 bp in length

* 13708 13807: gap of unknown length
 * 13808 16732: contig of 2925 bp in length
 * 16833 16832: gap of unknown length
 * 18973 18977: contig of 2145 bp in length
 * 18978 19077: gap of unknown length
 * 19078 21825: contig of 2748 bp in length
 * 21826 21925: gap of unknown length
 * 21926 24091: contig of 2166 bp in length
 * 24092 24191: gap of unknown length
 * 24192 25964: contig of 1773 bp in length
 * 25965 26064: gap of unknown length
 * 26065 28909: contig of 2845 bp in length
 * 28910 29009: gap of unknown length
 * 29010 30413: contig of 1404 bp in length
 * 30414 30513: gap of unknown length
 * 30514 31753: contig of 1240 bp in length
 * 31754 31853: gap of unknown length
 * 31854 34448: contig of 2595 bp in length
 * 34449 34548: gap of unknown length
 * 34549 36351: contig of 1803 bp in length
 * 36352 38451: gap of unknown length
 * 38452 38532: contig of 2081 bp in length
 * 38533 38632: gap of unknown length
 * 38633 40773: contig of 2141 bp in length
 * 40774 40873: gap of unknown length
 * 40874 42725: contig of 1852 bp in length
 * 42726 43825: gap of unknown length
 * 43826 44501: contig of 1878 bp in length
 * 44502 44601: gap of unknown length
 * 44602 46744: contig of 2143 bp in length
 * 46745 46844: gap of unknown length
 * 46845 48727: contig of 1883 bp in length
 * 48728 51179: contig of 2352 bp in length
 * 51180 51279: gap of unknown length
 * 51280 52478: contig of 1199 bp in length
 * 52479 52578: gap of unknown length
 * 52579 54000: contig of 1422 bp in length
 * 54001 54100: gap of unknown length
 * 54101 55860: contig of 1760 bp in length
 * 55861 55960: gap of unknown length
 * 55961 58011: contig of 2051 bp in length
 * 58012 58111: gap of unknown length
 * 58112 59783: contig of 1672 bp in length
 * 59784 59883: gap of unknown length
 * 59884 61804: contig of 1921 bp in length
 * 61805 61904: gap of unknown length
 * 61905 63014: contig of 1110 bp in length
 * 63015 63114: gap of unknown length
 * 63115 64428: contig of 1314 bp in length
 * 64429 64528: gap of unknown length
 * 64529 65848: contig of 1320 bp in length
 * 65849 67951: contig of 2003 bp in length
 * 67952 68051: gap of unknown length
 * 68052 69813: contig of 1762 bp in length
 * 69814 69913: gap of unknown length
 * 69914 71245: contig of 1332 bp in length
 * 71246 71346: gap of unknown length
 * 71346 72906: contig of 1561 bp in length
 * 72907 73006: gap of unknown length
 * 73007 74675: contig of 1669 bp in length
 * 74676 74775: gap of unknown length
 * 74776 76188: contig of 1413 bp in length
 * 76189 76288: gap of unknown length
 * 76289 77815: contig of 1527 bp in length
 * 77816 77915: gap of unknown length
 * 77916 79872: contig of 1957 bp in length
 * 79873 79972: gap of unknown length
 * 79973 81380: contig of 1408 bp in length
 * 81381 81480: gap of unknown length
 * 81481 82512: contig of 1032 bp in length
 * 82513 82612: gap of unknown length

* 82613 84502: contig of 1890 bp in length
 * 84503 84602: gap of unknown length
 * 84603 85955: contig of 1353 bp in length
 * 85956 86055: gap of unknown length
 * 86056 87130: contig of 1075 bp in length
 * 87131 87230: gap of unknown length
 * 87231 88779: contig of 1549 bp in length
 * 88780 90359: gap of unknown length
 * 90360 90459: gap of unknown length
 * 90460 91498: contig of 1039 bp in length
 * 91499 91598: gap of unknown length
 * 91599 93463: contig of 1865 bp in length
 * 93464 93563: gap of unknown length
 * 93564 94976: contig of 1413 bp in length
 * 94977 95076: gap of unknown length
 * 95077 96234: contig of 1158 bp in length
 * 96235 96334: gap of unknown length
 * 96335 97663: contig of 1329 bp in length
 * 97664 97763: gap of unknown length
 * 97764 99250: contig of 1487 bp in length
 * 99251 99350: gap of unknown length
 * 99351 100809: contig of 1459 bp in length
 * 100810 100909: gap of unknown length
 * 100910 101932: contig of 1023 bp in length
 * 101933 102032: gap of unknown length
 * 102033 103042: contig of 1010 bp in length
 * 103043 103142: gap of unknown length
 * 103143 104157: contig of 1015 bp in length
 * 104158 104257: gap of unknown length

Query Match 0.5%; Score 25; DB 2; Length 113725;

Best Local Similarity 100.0%; Pred. No. 0.11;

Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3808 atatatgaataataataataa 3832

Db 13816 ATATATGTAATAATAATAATAA 13840

RESULT 4

ALL362233/C

LOCUS

DEFINITION

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

ALL362233 Human DNA sequence from clone RP11-9E13 on chromosome 10, complete sequence.

ALL362233

AL1362233.14 GI:16408601

HTG.

human.

Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.

Howden, P.

Direct Submission

Submitted (20-OCT-2001) Sanger Centre, Hinxton, Cambridgeshire,

CB10 1SA, UK. E-mail enquiries: humquery@sanger.ac.uk

requests: clonesrequest@sanger.ac.uk

On Oct 24, 2001 this sequence version replaced gi:15131189.

During sequence assembly data is compared from overlapping clones.

Where differences are found these are annotated as variations

together with a note of the overlapping clone name. Note that the

variation annotation may not be found in the sequence submission

corresponding to the overlapping clone, as we submit sequences with

only a small overlap as described above.

This sequence was finished as follows unless otherwise noted: all

regions were either double-stranded or sequenced with an alternate

chemistry or covered by high quality data (i.e., phred quality >=

30); an attempt was made to resolve all sequencing problems, such

as compressions and repeats; all regions were covered by at least

one plasmid subclone or more than one M13 subclone; and the

assembly was confirmed by restriction digest. The following

abbreviations are used to associate primary accession numbers given


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BASE COUNT      12 a      4 c      9 g      7 t
ORIGIN
/note="Primer"
Query Match      0.5%; Score 24; DB 6; Length 32;
Best Local Similarity 100.0%; Pred. NO. 0.39;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 3780 aatgtgacgcggtgaataataacgg 3803
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DD	3	AAAGTGACCGGCGAATAATAACGG	32
RESULT	6		
AF240004			
LOCUS	AF240004	1683 bp	linear
DEFINITION	Sesamum indicum l1s globulin mRNA, complete cds		PLN 02-MAR-2001

```

sesamum indicum 11S globulin mRNA, complete cds
AF240004
AF240004.1 GI:13183172
.
SOURCE          sesame.
ORGANISM        Sesamum indicum
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
Asteridae; eusteroideis I; Lamiales; Pedaliaceae; Sesamum.
1 (bases 1 to 1683)
Tai,S.S.K. and Tzen,J.T.C.
Molecular cloning of three storage proteins in sesame
Unpublished
2 (bases 1 to 1683)
Tai,S.S.K. and Tzen,J.T.C.
Direct Submission
Submitted (01-MAR-2000) Graduate Institute of Agricultural
Biotechnology, National Chung-Hsing University, Taichung 40227,
Taiwan
FEATURES
          source
            1..1683
              /organism="Sesamum indicum"
              /db_xref="taxon:4192"
            24..1517
          CDS

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/codon_start=1
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/protein_id="AAK15087.1"
/db_xref="GI:13183173"
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ATDCRVERLTQAEPTIRFESAGLTPEWNRNQCFCAGVAARNVIGPRGLLGLPHY
NNAPOLLVYVRGRGLQGVTPICCAETFEETQDPRDREMRDHRQKVRQFGQDILA
IPAGLTITFEVYNGCELTITVALDPRGNANQVQDREEREELAGNECCCHQSYVECPDTA

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BASE COUNT      442 a   397 c   477 g   367 t
ORIGIN
Query Match      0.5%; Score 24; DB 8; Length 1683;
Best Local Similarity 100.0%; Pred. No. 0.39;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 3555 ttcaagaccacgacgaacgcgatg 3578
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Db 1263 TTCAAGACCACGACCAACGCATG 1286

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AC034196	AC034196	133108 bp	DNA	linear	HTG 29-MAY-2000
LOCUS					
DEFINITION					


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4065. 5164
/misc_feature /note="assembly_name:Contig20"
5265. 6462
/misc_feature /note="assembly_name:Contig23"
6563. 7875
/misc_feature /note="assembly_name:Contig26"
7976. 9431
/misc_feature /note="assembly_name:Contig28"
9532. 11077
/misc_feature /note="assembly_name:Contig29"
11178. 12990
/misc_feature /note="assembly_name:Contig30
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vector_side:right"
/misc_feature 13091. 15234
/misc_feature /note="assembly_name:Contig32"
15335. 17069
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17170. 18806
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26403. 28833
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31430. 33222
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35671. 37854
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37955. 39204
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56038. 59494

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Query Match 0.5%; Score 24; DB 2; Length 133108;
Best Local Similarity 100.0%; Pred. No. 0.4;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3803 gtaaaatattgtaataataataa 3826
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Db 120755 GTAAATATGTAATAATAATAA 120778

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RESULT 8
AC022096 AC022096 148598 bp DNA linear HTG 18-JUL-2000
LOCUS Homo sapiens chromosome 5 clone CTB-43D14, WORKING DRAFT SEQUENCE,
DEFINITION 20 ordered pieces.
ACCESSION AC022096
VERSION AC022096.4 GI:9256401
KEYWORDS HTG; HTGS_PHASE2; HTGS_DRAFT.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

```

REFERENCE

AUTHORS

JOURNAL

REFERENCE

AUTHORS

JOURNAL

COMMENT

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 148598)
DOE Joint Genome Institute.
Sequencing of Human Chromosome 5
Unpublished
2 (bases 1 to 148598)
DOE Joint Genome Institute.
Direct Submission
Submitted (26-JAN-2000) Production Sequencing Facility, DOE Joint
Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA
On Jul 18, 2000 this sequence version replaced gi:7711677.

-----Genome Center
Center: Joint Genome Institute
Center Code: JGI
Web site: <http://www.jgi.doe.gov>

Project Information
Center Project Name: 80802
Center clone name: C1F97BSKB_43D14

Summary Statistics
Consensus quality: 133423 bases at least Q40
Consensus quality: 144004 bases at least Q30
Consensus quality: 145802 bases at least Q20
Estimated insert size: 176000; pulse field gel estimation
Estimated insert size: 147698; sum-of-contigs estimation
Quality coverage: 5.34 in Q20 bases; pulse field gel estimation
Quality coverage: 6.36 in Q20 bases; sum-of-contigs estimation.
* NOTE: This is a 'working draft' sequence. It currently
* consists of 20 contigs. Gaps between the contigs
* are represented as runs of N. The order of the pieces
* is believed to be correct as given, however the sizes
* of the gaps between them are based on estimates that have
* provided by the submitter.
* This sequence will be replaced
* by the finished sequence as soon as it is available and
* the accession number will be preserved.

1 5195: contig of 5195 bp in length
* 5196 5295: gap of unknown length
* 5296 15425: contig of 10130 bp in length
* 15426 15525: gap of unknown length
* 15526 20947: contig of 5422 bp in length
* 20948 21047: gap of unknown length
* 21048 26789: contig of 5742 bp in length
* 26790 26889: gap of unknown length
* 26890 32943: contig of 6054 bp in length
* 32944 33043: gap of unknown length
* 33044 38651: contig of 5608 bp in length
* 38652 38751: gap of unknown length
* 38752 64412: contig of 25661 bp in length
* 64413 79245: gap of unknown length
* 79246 79345: contig of 14733 bp in length
* 79346 82132: contig of 2787 bp in length
* 82133 82232: gap of unknown length
* 82233 86578: contig of 4246 bp in length
* 86479 86578: gap of unknown length
* 86579 90700: contig of 4122 bp in length
* 90701 90800: gap of unknown length
* 90801 93106: contig of 2306 bp in length
* 93107 93206: gap of unknown length
* 93207 99356: contig of 6150 bp in length
* 99357 99456: gap of unknown length
* 99457 116776: contig of 17320 bp in length
* 116777 116876: gap of unknown length
* 116877 117926: contig of 1050 bp in length
* 117927 118026: gap of unknown length
* 118027 127710: contig of 9684 bp in length
* 127711 127810: gap of unknown length
* 127811 136755: contig of 8945 bp in length
* 136756 136755: gap of unknown length
* 136856 138975: contig of 2120 bp in length
* 138976 139075: gap of unknown length

* 139076 146683: contig of 7608 bp in length
 * 146684 146783: gap of unknown length
 * 146784 148598: contig of 1815 bp in length.

FEATURES

Location/Qualifiers
 1..148598
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /chromosome="5"
 /clone_lib="Caltech human BAC library B"

BASE COUNT 41000 a 35188 c 33298 g 37210 t 1902 others
 ORIGIN

Query Match 0.5%; Score 24; DB 2; Length 148598;

Best Local Similarity 100.0%; Pred. No. 0.4;

Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3955 catgaatttttaattttataaaat 3978

|||||

Db 124720 CATGAATTTAAATTTTATAAAAT 124743

RESULT

AC026193/C

LOCUS

AC026193 152602 bp DNA linear HTC 29-MAY-2000
 Homo sapiens chromosome 3 clone RP11-416H8 map 3p, WORKING DRAFT

SEQUENCE, 57 unordered pieces.

AC026193

VERSION AC926193.2 GI:8101213

KEYWORDS HTG: HTGS_PHASE1; HTGS_DRAFT.

SOURCE human.

ORGANISM

Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.

1 (bases 1 to 152602)

Bao, J., Bao, Q., Fan, H., Feng, X., Guan, Q., Gu, X., Guo, D., He, L., Hu, S.,

Huang, F., Jin, Y., Kang, N., Li, C., Li, C., Li, G., Li, J., Li, L., Li, S.,

Li, T., Liu, Y., Liu, N., Liu, B., Liu, Y., Li, W., Li, W., Li, Y.,

Lu, J., Lu, Y., Qiu, Q., Qi, X., Song, S., Sun, M., Sun, W., Sun, Y.,

Tao, R., Wang, H., Wang, J., Wang, J., Wang, L., Wang, L., Wang, R.,

Wang, X., Wang, X., Wang, Y., Wu, D., Wu, Q., Xie, F., Xuan, Z., Xue, Y.,

Yan, C., Yang, X., Yu, B., Zeng, Y., Zhang, G., Zhang, H., Zhang, H.,

Zhang, L., Zhang, M., Zhang, X., Zhang, X., Zhang, Y., Zhang, Y.,

Zhang, Z., Zhu, B., Yu, J. and Yang, H.

Chromosome 3p genomic sequence

Unpublished

2 (bases 1 to 152602)

Sun, W., Hu, S., Dong, W., Wang, J., Zhang, Y., Zhang, H., Liu, B.,

Bao, W., Sun, Y., Wu, Q., Wang, H., Yang, X., Cheng, C., Wang, Y., Niu, Y.,

Qi, X., Li, T., Zhang, H., Liu, N., Wu, D., Yu, B., Fan, H., Liu, Y.,

Li, G., Li, C., Bao, Q., Bao, J., Wang, X., Song, L., Zhang, L., Guo, D.,

Huang, F., Zhang, G., Li, J., Bian, X., Zhang, M., Li, L., Feng, X., Yu, J.

and Yang, H.

Direct Submission

Submitted (21-MAR-2000) Human Genomic Center, Institute of

Genetics, Chinese Academy of Sciences, Datun Road, Beijing, Beijing

100101, P.R.China

On May 29, 2000 this sequence version replaced gi:7272010.

-----Genome Center

Center: Beijing Center

Center code: Beijing

Website: <http://hgsc.igtp.ac.cn>

<http://www.genomics.org.cn>

Contact: hgsc@igtp.ac.cn

----- Project Information

Center project name: 1% project

Center clone name: RP11-416H8

----- Summary Statistics

Sequencing vector: pUC18; 100% of reads

Chemistry: Dye-terminator: ET 55% of reads

Chemistry: Dye-terminator: Big Dye; 45% of reads

Assembly program: Phrap; version 0.990329
 Consensus quality: 115486 bases at least Q40
 Consensus quality: 144075 bases at least Q30
 Consensus quality: 163107 bases at least Q20
 Insert size: 88668; sum-of-contigs
 Quality coverage: 3.78x in Q20 bases; sum-of-contigs

 * NOTE: This is a 'working draft' sequence. It currently
 * consists of 57 contigs. The true order of the pieces
 * is not known and their order in this sequence record is
 * arbitrary. Gaps between the contigs are represented as
 * runs of N, but the exact sizes of the gaps are unknown.
 * This record will be updated with the finished sequence
 * as soon as it is available and the accession number will
 * be preserved.

1 1540: contig of 1540 bp in length
 * 1541 1640: gap of unknown length
 * 1641 2835: contig of 1195 bp in length
 * 2836 2935: gap of unknown length
 * 2936 4034: contig of 1099 bp in length
 * 4035 4134: gap of unknown length
 * 4135 5760: contig of 1626 bp in length
 * 5761 5860: gap of unknown length
 * 5861 7021: contig of 1161 bp in length
 * 7022 7121: gap of unknown length
 * 7122 8431: contig of 1310 bp in length
 * 8432 8531: gap of unknown length
 * 8532 10150: contig of 1619 bp in length
 * 10151 10250: gap of unknown length
 * 10251 11827: contig of 1577 bp in length
 * 11828 11927: gap of unknown length
 * 11928 13240: contig of 1313 bp in length
 * 13241 13340: gap of unknown length
 * 13341 14802: contig of 1462 bp in length
 * 14803 14902: gap of unknown length
 * 14903 16661: contig of 1759 bp in length
 * 16662 16761: gap of unknown length
 * 16762 18070: contig of 1309 bp in length
 * 18071 18170: gap of unknown length
 * 18171 19601: contig of 1431 bp in length
 * 19602 19701: gap of unknown length
 * 19702 21364: contig of 1663 bp in length
 * 21365 21464: gap of unknown length
 * 21465 23376: contig of 1912 bp in length
 * 23377 23476: gap of unknown length
 * 23477 23479: contig of 2003 bp in length
 * 23480 25579: gap of unknown length
 * 25580 27647: gap of unknown length
 * 27648 27747: contig of 1802 bp in length
 * 27748 29648: gap of unknown length
 * 29649 31701: contig of 2053 bp in length
 * 31702 31801: gap of unknown length
 * 31802 33144: contig of 1343 bp in length
 * 33145 34535: contig of 1291 bp in length
 * 34536 34635: gap of unknown length
 * 34636 35728: contig of 1093 bp in length
 * 35729 35828: gap of unknown length
 * 35829 37639: contig of 1811 bp in length
 * 37640 37739: gap of unknown length
 * 37740 40142: contig of 2403 bp in length
 * 40143 40242: gap of unknown length
 * 40243 41570: contig of 1328 bp in length
 * 41571 41670: gap of unknown length
 * 41671 43259: contig of 1589 bp in length
 * 43260 43359: gap of unknown length
 * 43360 45147: contig of 1788 bp in length
 * 45148 45247: gap of unknown length
 * 45248 46975: contig of 1728 bp in length
 * 46976 47075: gap of unknown length
 * 47076 49136: contig of 2061 bp in length
 * 49137 49236: gap of unknown length

```

* 49237 52178: contig of 2942 bp in length
* 52179 52278: gap of unknown length
* 52977 52978: contig of 2679 bp in length
* 54958 55057: gap of unknown length
* 55058 57417: contig of 2360 bp in length
* 57418 57517: gap of unknown length
* 57518 60195: contig of 2678 bp in length
* 60196 60295: gap of unknown length
* 60296 62295: contig of 2000 bp in length
* 62296 62395: gap of unknown length
* 62396 64401: contig of 2006 bp in length
* 64401 64501: gap of unknown length
* 64502 67886: contig of 3385 bp in length
* 67887 67986: gap of unknown length
* 67987 70888: contig of 2902 bp in length
* 70889 70988: gap of unknown length
* 70989 73943: contig of 2955 bp in length
* 73944 74043: gap of unknown length
* 74044 76750: contig of 2707 bp in length
* 76751 76850: gap of unknown length
* 76851 79324: contig of 2474 bp in length
* 79325 79424: gap of unknown length
* 79425 81198: contig of 1774 bp in length
* 81199 81298: gap of unknown length
* 81299 84892: contig of 3594 bp in length
* 84893 84992: gap of unknown length
* 84993 87653: contig of 2861 bp in length
* 87654 87753: gap of unknown length
* 87754 91151: contig of 3398 bp in length
* 91152 91251: gap of unknown length
* 91252 93951: contig of 2700 bp in length
* 93952 94051: gap of unknown length
* 94052 98226: contig of 4175 bp in length
* 98227 98326: gap of unknown length
* 98327 102109: contig of 3783 bp in length
* 102110 102209: gap of unknown length
* 102210 105933: contig of 3724 bp in length
* 105934 106033: gap of unknown length
* 106034 109844: contig of 3811 bp in length
* 109845 109944: gap of unknown length
* 109945 112749: contig of 2805 bp in length
* 112750 112849: gap of unknown length
* 112850 117845: contig of 4996 bp in length
* 117846 117945: gap of unknown length
* 117946 122444: contig of 4499 bp in length
* 122445 122544: gap of unknown length
* 122545 128723: contig of 6179 bp in length
* 128724 128823: gap of unknown length
* 128824 134603: contig of 5780 bp in length
* 134604 134703: gap of unknown length
* 134704 140178: contig of 5475 bp in length
* 140179 140278: gap of unknown length
* 140279 147021: contig of 6743 bp in length
* 147022 147121: gap of unknown length
* 147122 152602: contig of 5481 bp in length.

FEATURES
    source
        Location/Qualifiers
            1..152602
                /organism="Homo sapiens"
                /db_xref="taxon:9606"
                /chromosome="3"
                /map="3p"
                /clone="RP11-416H8"
            1..1540
                /note="assembly_name:Contig42"
            1641..2835
                /note="assembly_name:Contig45"
            2936..4034
                /note="assembly_name:Contig46"
            4135..5760
                /note="assembly_name:Contig51"
            5861..7021
                /note="assembly_name:Contig52"
            7122..8431

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```

misc_feature
    8532..10150
        /note="assembly_name:Contig57"
misc_feature
    10251..11827
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misc_feature
    11928..13240
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Query Match      0.5%; Score 24; DB 2; Length 152602;
Best Local Similarity 100.0%; Pred. No. 0.4;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3803 gtaaaatattgtaataataataa 3826
    |||||
Db 148305 GTAAATATATGTAATAATAATAA 148282

RESULT 10
LOCUS AC024377 162433 bp DNA linear HTG 26-MAY-2000
DEFINITION Homo sapiens clone RP11-611H22, WORKING DRAFT SEQUENCE, 24
unorderd pieces.
ACCESSION AC024377
VERSION AC024377.3 GI:8076825
KEYWORDS HTG: HTGS_PHASE1; HTGS_DRAFT.
SOURCE human.
ORGANISM Homo sapiens
    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
    Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
    Birren,B., Linton,L., Nusbaum,C. and Lander,E.
    Unpublished
    2 (bases 1 to 162433)
    Birren,B., Linton,L., Nusbaum,C., Lander,E., Abraham,H., Allen,N.,
    Anderson,S., Baldwin,J., Barna,N., Beda,F., Boguslavsky,L.,
    Boukhgalter,B., Brown,A., Burkett,G., Campopiano,A., Castle,A.,
    Choepel,Y., Collangelo,M., Collins,S., Collymore,A., Cooke,P.,
    DeArellano,K., Dewar,K., Diaz,J.S., Dodge,S., Domino,M., Doyle,M.,
    Fenestor,J., Ferreira,P., FitzHugh,W., Forrest,C., Gage,D.,
    Galagan,J., Gardyna,S., Ginde,S., Goyette,M., Graham,L.,
    Grand-Pierre,N., Grant,G., Hages,B., Heaford,A., Horton,L.,
    Howland,J.C., Iliev,I., Johnson,R., Jones,C., Kann,L., Karatas,A.,
    Klein,J., Landers,T., Laroque,K., Lehoczy,J., Levine,R.,
    Lieu,C., Liu,G., Locke,K., Macdonald,P., Marquis,N., McCarthy,M.,
    McEwan,P., McGurk,A., McKernan,K., McPheeters,R., Meldrim,J.,
    Meneus,L., Mihova,T., Miranda,C., Mlenga,V., Morrow,J., Naylor,J.,
    Norman,C.H., O'Connor,T., O'Donnell,P., O'Neil,D., Olivar,T.M.,
    Peterson,K., Pierre,N., Pisani,C., Pollara,V., Raymond,C.,
    Riley,R., Rogov,P., Rothman,D., Roy,A., Santos,R., Schauer,S.,
    Severy,P., Spencer,B., Stange-Thomann,N., Stojanovic,N.,
    Subramanian,A., Talamas,J., Tesfaye,S., Theodore,J., Tirrell,A.,
    Travers,M., Trigilio,J., Vassiliev,H., Viel,R., Vo.A., Wilson,B.,
    Wu,X., Wymann,D., Ye,W.J., Young,G., Zainoun,J., Zimmer,A. and
    Zody,M.
Direct Submission
Submitted (28-FEB-2000) Whitehead Institute/MIT Center for Genome
Research, 320 Charles Street, Cambridge, MA 02141, USA
On May 25, 2000 this sequence version replaced gi:7321591.
All repeats were identified using RepeatMasker:
    Smit, A.F.A. & Green, P. (1996-1997)
    http://ftp.genome.washington.edu/RM/RepeatMasker.html
----- Genome Center
Center: Whitehead Institute/ MIT Center for Genome Research
Center code: WIBR
Web site: http://www-seq.wi.mit.edu
Contact: sequence_submissions@genome.wi.mit.edu
----- Project Information
Center project name: L6258
Center clone name: 611_H22
----- Summary Statistics
Sequencing vector: M13; M77815; 100% of reads
Chemistry: Dye-terminator Big Dye; 100% of reads
Assembly program: Phrap; version 0.960731

```

Consensus quality: 147711 bases at least Q40
 Consensus quality: 155048 bases at least Q30
 Consensus quality: 158115 bases at least Q20
 Insert size: 170000; agarose-fp
 Insert size: 160133; sum-of-contigs
 Quality coverage: 3.3 in Q20 bases; agarose-fp
 Quality coverage: 3.5 in Q20 bases; sum-of-contigs

 * NOTE: This is a 'working draft' sequence. It currently
 * consists of 24 contigs. The true order of the pieces
 * is not known and their order in this sequence record is
 * arbitrary. Gaps between the contigs are represented as
 * runs of N, but the exact sizes of the gaps are unknown.
 * This record will be updated with the finished sequence
 * as soon as it is available and the accession number will
 * be preserved.

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1 1374: contig of 1374 bp in length
1375 1474: gap of 100 bp
1475 2181: contig of 707 bp in length
2182 2281: gap of 100 bp
2282 2673: contig of 392 bp in length
2674 2773: gap of 100 bp
2774 5106: contig of 2333 bp in length
5107 5206: gap of 100 bp
5207 7656: contig of 2450 bp in length
7657 7756: gap of 100 bp
7757 9790: contig of 2034 bp in length
9791 9890: gap of 100 bp
9891 13844: contig of 3954 bp in length
13845 13944: gap of 100 bp
13945 16502: contig of 2558 bp in length
16503 16602: gap of 100 bp
16603 19777: contig of 3175 bp in length
19778 19877: gap of 100 bp
19878 23124: contig of 3247 bp in length
23125 23224: gap of 100 bp
23225 28282: contig of 5058 bp in length
28283 28382: gap of 100 bp
28383 31743: contig of 3361 bp in length
31744 31843: gap of 100 bp
31844 37479: contig of 5636 bp in length
37480 37579: gap of 100 bp
37580 44685: contig of 7106 bp in length
44686 44785: gap of 100 bp
44786 52369: contig of 7584 bp in length
52370 52469: gap of 100 bp
52470 60987: contig of 8518 bp in length
60988 61087: gap of 100 bp
61088 71201: contig of 10114 bp in length
71202 71301: gap of 100 bp
71302 81815: contig of 10514 bp in length
81816 81915: gap of 100 bp
81916 93418: contig of 11503 bp in length
93419 93518: gap of 100 bp
93519 107008: contig of 13490 bp in length
107009 107108: gap of 100 bp
107109 117125: contig of 10017 bp in length
117126 117225: gap of 100 bp
117226 129994: contig of 12769 bp in length
129995 130094: gap of 100 bp
130095 143708: contig of 13614 bp in length
143709 143809: gap of 100 bp
143809 162433: contig of 18625 bp in length.

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FEATURES

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source
1. .162433
   /organism="Homo sapiens"
   /db_xref="taxon:9606"
   /clone="RP11-611H22"
   /clone_lib="RPC1-11 Human Male BAC"
misc_feature
1. .11374
   /note="assembly_fragment"
misc_feature
1475. .2181
   /note="assembly_fragment"

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misc_feature
clone_end:T7
vector_side:left
2282. .2673
   /note="assembly_fragment"
clone_end:SP6
vector_side:right
2774. .5106
   /note="assembly_fragment"
5207. .7656
   /note="assembly_fragment"
7757. 9790
   /note="assembly_fragment"
9891. .13844
   /note="assembly_fragment"
13945. .16502
   /note="assembly_fragment"
16603. .19777
   /note="assembly_fragment"
19878. 23124
   /note="assembly_fragment"
23225. .28282
   /note="assembly_fragment"
28383. .31743
   /note="assembly_fragment"
31844. .37479
   /note="assembly_fragment"
37580. .44685
   /note="assembly_fragment"
44786. .52369
   /note="assembly_fragment"
52470. .60987
   /note="assembly_fragment"
61088. .71201
   /note="assembly_fragment"
71302. .81815
   /note="assembly_fragment"
81916. .93418
   /note="assembly_fragment"
93519. .107008
   /note="assembly_fragment"
107109. .117125
   /note="assembly_fragment"
117226. .129994
   /note="assembly_fragment"
130095. .143708
   /note="assembly_fragment"
143809. .162433
   /note="assembly_fragment"
BASE COUNT 50320 a 29690 c 29259 g 50860 t 2304 others
ORIGIN

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Query Match 0.5%; Score 24; DB 2; Length 162433;
 Best Local Similarity 100.0%; Pred. No. 0.4;
 Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 3803 gtaaaatatgtataataataa 3826
Db 40394 GTAAATATATGTAATAATAATAA 40417

```

RESULT 11

```

AC018496/C 163272 bp DNA linear HTG 03-FEB-2000
LOCUS
DEFINITION HOMO sapiens chromosome 3p clone RP11-210B17, WORKING DRAFT
SEQUENCE, 5 unordered pieces.
AC018496
AC018496.2 GI:6684201
KEYWORDS HTG; HTGS_PHASE1; HTGS_DRAFT.
SOURCE human.
ORGANISM Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

```

REFERENCE
AUTHORS

1 (bases 1 to 163272)
 Bao,J., Hu,S., Dong,W., Zhang,X., Wang,J., Zhang,Y., Zhang,H.,
 Liu,B., Bao,W., Sun,Y., Wu,Q., Wang,H., Yang,X., Cheng,C., Wang,Y.,
 Niu,Y., Qi,X., Li,T., Zhang,H., Liu,N., Wu,D., Yu,B., Fan,H.,
 Liu,Y., Li,G., Li,C., Bao,Q., Wang,X., Song,L., Zhang,L.,
 Guo,D., Huang,F., Zhang,G., Li,J., Bian,X., Zhang,M., Li,L.,
 Feng,X., Yu,J., and Yang,H.

TITLE
JOURNAL
REFERENCE
AUTHORS

Unpublished
 Chromosome 3p genomic sequence
 2 (bases 1 to 163272)
 Li,T., Hu,S., Dong,W., Wang,J., Zhang,Y., Zhang,H., Liu,B., Bao,W.,
 Sun,Y., Wu,Q., Wang,H., Yang,X., Cheng,C., Wang,Y., Niu,Y., Qi,X.,
 Wang,X., Zhang,H., Liu,N., Wu,D., Yu,B., Fan,H., Liu,Y., Li,G.,
 Li,C., Bao,Q., Bao,J., Wang,X., Song,L., Zhang,L., Guo,D.,
 Huang,F., Zhang,G., Li,J., Bian,X., Zhang,M., Li,L., Feng,X., Yu,J.,
 and Yang,H.

TITLE
JOURNAL

Direct Submission
 Submitted (13-DEC-1999) Human Genomic Center, Institute of
 Genetics, Chinese Academy of Sciences, Datun Road, Beijing, Beijing
 100101, P.R.China

COMMENT

On Jan 9, 2000 this sequence version replaced gi:6563492.
 * NOTE: This is a 'working draft' sequence. It currently
 * consists of 5 contigs. The true order of the pieces
 * is not known and their order in this sequence record is
 * arbitrary. Gaps between the contigs are represented as
 * runs of N, but the exact sizes of the gaps are unknown.
 * This record will be updated with the finished sequence.
 * as soon as it is available and the accession number will
 * be preserved.

1 4841: contig of 4841 bp in length
 * 1 gap of unknown length
 * 4842 26723: contig of 21882 bp in length
 * 26724 57119: gap of unknown length
 * 57120 104873: contig of 30396 bp in length
 * 104874 163272: contig of 47754 bp in length
 * Location/Qualifiers
 1..163272
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /chromosome="3p"
 /clone="RP11-210B17"

FEATURES
source

BASE COUNT 51500 a 30337 c 29864 g 51563 t 8 others
 ORIGIN

Query Match 0.5%; Score 24; DB 2; Length 163272;
 Best Local Similarity 100.0%; Pred. No. 0.4;
 Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3803 gtaaaatattgttaataataa 3826
 Db 84958 GTAAATATATGTAATATATAA 84935
 |||||

RESULT 12

AC026190

LOCUS

AC026190 Homo sapiens chromosome 3 clone RP11-372K9 map 3p, WORKING DRAFT

DEFINITION

SEQUENCE, 19 unordered pieces.

AC026190

VERSION

AC026190.2 GI:8101204

KEYWORDS

HTG; HTGS_PHASE1; HTGS_DRAFT.

SOURCE

human.

ORGANISM

Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE
AUTHORS

1 (bases 1 to 165077)
 Bao,J., Bao,Q., Li,T., Zhang,H., Liu,N., Wu,D., Yu,B., Fan,H.,
 Liu,Y., Li,G., Li,C., Bao,Q., Wang,X., Song,L., Zhang,L.,
 Guo,D., Huang,F., Zhang,G., Li,J., Bian,X., Zhang,M., Li,L.,
 Feng,X., Yu,J., and Yang,H.

TITLE
JOURNAL
REFERENCE
AUTHORS

Unpublished
 Chromosome 3p genomic sequence
 2 (bases 1 to 165077)
 Sun,M., Hu,S., Dong,W., Wang,J., Zhang,Y., Zhang,H., Liu,B.,
 Bao,W., Sun,Y., Wu,Q., Wang,H., Yang,X., Cheng,C., Wang,Y., Niu,Y.,
 Qi,X., Li,T., Zhang,H., Liu,N., Wu,D., Yu,B., Fan,H., Liu,Y.,
 Li,G., Li,C., Bao,Q., Bao,J., Wang,X., Song,L., Zhang,L., Guo,D.,
 Huang,F., Zhang,G., Li,J., Bian,X., Zhang,M., Li,L., Feng,X., Yu,J.,
 and Yang,H.

TITLE
JOURNAL
REFERENCE
AUTHORS

Direct Submission
 Submitted (21-MAR-2000) Human Genomic Center, Institute of
 Genetics, Chinese Academy of Sciences, Datun Road, Beijing, Beijing
 100101, P.R.China
 On May 29, 2000 this sequence version replaced gi:7272007.
 * NOTE: This is a 'working draft' sequence. It currently
 * consists of 19 contigs. The true order of the pieces
 * is not known and their order in this sequence record is
 * arbitrary. Gaps between the contigs are represented as
 * runs of N, but the exact sizes of the gaps are unknown.
 * This record will be updated with the finished sequence.
 * as soon as it is available and the accession number will
 * be preserved.

TITLE
JOURNAL

1 1161: contig of 1161 bp in length
 * 1162 1261: gap of unknown length
 * 1262 2361: contig of 1100 bp in length
 * 2362 2461: gap of unknown length
 * 2462 4676: contig of 2215 bp in length
 * 4677 4776: gap of unknown length
 * 4777 7509: contig of 2733 bp in length
 * 7510 7609: gap of unknown length
 * 7610 10791: contig of 3182 bp in length
 * 10792 10891: gap of unknown length
 * 10892 15192: contig of 4301 bp in length
 * 15193 15292: gap of unknown length
 * 15293 20869: contig of 5577 bp in length
 * 20870 20963: gap of unknown length
 * 20970 27390: contig of 6421 bp in length
 * 27391 27490: gap of unknown length
 * 27491 35391: contig of 7901 bp in length
 * 35392 35491: gap of unknown length
 * 35492 42412: contig of 6921 bp in length
 * 42413 42512: gap of unknown length
 * 42513 50794: contig of 8282 bp in length
 * 50795 50894: gap of unknown length
 * 50895 57503: contig of 6608 bp in length
 * 57503 57602: gap of unknown length

COMMENT

On May 29, 2000 this sequence version replaced gi:7272007.
 * NOTE: This is a 'working draft' sequence. It currently
 * consists of 19 contigs. The true order of the pieces
 * is not known and their order in this sequence record is
 * arbitrary. Gaps between the contigs are represented as
 * runs of N, but the exact sizes of the gaps are unknown.
 * This record will be updated with the finished sequence.
 * as soon as it is available and the accession number will
 * be preserved.

1 1161: contig of 1161 bp in length
 * 1162 1261: gap of unknown length
 * 1262 2361: contig of 1100 bp in length
 * 2362 2461: gap of unknown length
 * 2462 4676: contig of 2215 bp in length
 * 4677 4776: gap of unknown length
 * 4777 7509: contig of 2733 bp in length
 * 7510 7609: gap of unknown length
 * 7610 10791: contig of 3182 bp in length
 * 10792 10891: gap of unknown length
 * 10892 15192: contig of 4301 bp in length
 * 15193 15292: gap of unknown length
 * 15293 20869: contig of 5577 bp in length
 * 20870 20963: gap of unknown length
 * 20970 27390: contig of 6421 bp in length
 * 27391 27490: gap of unknown length
 * 27491 35391: contig of 7901 bp in length
 * 35392 35491: gap of unknown length
 * 35492 42412: contig of 6921 bp in length
 * 42413 42512: gap of unknown length
 * 42513 50794: contig of 8282 bp in length
 * 50795 50894: gap of unknown length
 * 50895 57503: contig of 6608 bp in length
 * 57503 57602: gap of unknown length

Quality coverage: 3.38x in 020 bases:sum-of-contigs
 * NOTE: This is a 'working draft' sequence. It currently
 * consists of 19 contigs. The true order of the pieces
 * is not known and their order in this sequence record is
 * arbitrary. Gaps between the contigs are represented as
 * runs of N, but the exact sizes of the gaps are unknown.
 * This record will be updated with the finished sequence.
 * as soon as it is available and the accession number will
 * be preserved.

1 1161: contig of 1161 bp in length
 * 1162 1261: gap of unknown length
 * 1262 2361: contig of 1100 bp in length
 * 2362 2461: gap of unknown length
 * 2462 4676: contig of 2215 bp in length
 * 4677 4776: gap of unknown length
 * 4777 7509: contig of 2733 bp in length
 * 7510 7609: gap of unknown length
 * 7610 10791: contig of 3182 bp in length
 * 10792 10891: gap of unknown length
 * 10892 15192: contig of 4301 bp in length
 * 15193 15292: gap of unknown length
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 * 20870 20963: gap of unknown length
 * 20970 27390: contig of 6421 bp in length
 * 27391 27490: gap of unknown length
 * 27491 35391: contig of 7901 bp in length
 * 35392 35491: gap of unknown length
 * 35492 42412: contig of 6921 bp in length
 * 42413 42512: gap of unknown length
 * 42513 50794: contig of 8282 bp in length
 * 50795 50894: gap of unknown length
 * 50895 57503: contig of 6608 bp in length
 * 57503 57602: gap of unknown length

* 57603 67629: contig of 10027 bp in length
 * 67630 67729: gap of unknown length
 * 67730 79455: contig of 11726 bp in length
 * 79456 79855: gap of unknown length
 * 79856 91868: contig of 12313 bp in length
 * 91869 91968: gap of unknown length
 * 91969 102398: contig of 10430 bp in length
 * 102399 102499: gap of unknown length
 * 102499 117022: contig of 14524 bp in length
 * 117023 117122: gap of unknown length
 * 117123 135218: contig of 18096 bp in length
 * 135219 135318: gap of unknown length
 * 135319 165077: contig of 29759 bp in length.

FEATURES

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 /db_xref="taxon:9606"
 /chromosome="3"
 /map="3p"
 /clone="RP11-372K9"
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 1. 1161
 /note="assembly_name:Contig6"
 misc_feature
 1262. 2361
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 misc_feature
 2462. 4676
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 misc_feature
 4777. 7509
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 misc_feature
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 misc_feature
 15293. 20869
 /note="assembly_name:Contig13"
 misc_feature
 20970. 27390
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 misc_feature
 27491. 35391
 /note="assembly_name:Contig15"
 misc_feature
 35492. 42412
 /note="assembly_name:Contig16"
 misc_feature
 42513. 50794
 /note="assembly_name:Contig17"
 misc_feature
 50895. 57502
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 misc_feature
 57603. 67629
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 misc_feature
 67730. 79455
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 misc_feature
 91969. 102398
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 misc_feature
 135319. 165077
 /note="assembly_name:Contig25"
 misc_feature
 165077. 29759
 /note="assembly_name:Contig26"

BASE COUNT 50675 a 30322 c 30406 g 51830 t 1844 others
 ORIGIN

Query Match 0.5%; Score 24; DB 2; Length 165077;
 Best local similarity 100.0%; Pred. No. 0.4;
 Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 3803 gtaaaatattgtataataataa 3826
 ||||||||||||||||||||
 Db 50711 GTAAATATATGTAATAATAA 50734

RESULT 13

AC027763/c
 LOCUS

DEFINITION
 AC027763
 AC027763.9 G1:18104884
 VERSION
 KEYWORDS
 SOURCE
 ORGANISM

REFERENCE

AUTHORS
 TITLE
 JOURNAL
 REFERENCE
 AUTHORS

AC027763 169770 bp DNA linear PRI 01-FEB-2002
 Homo sapiens chromosome 17, clone RP11-530N7, complete sequence.
 AC027763
 AC027763.9 G1:18104884
 HTG.
 human.

Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 1 (bases 1 to 169770)
 Birren, B., Linton, L., Nusbaum, C. and Lander, E.

Homo sapiens chromosome 17, clone RP11-530N7
 Unpublished
 2 (bases 1 to 169770)
 Birren, B., Linton, L., Nusbaum, C., Lander, E., Abraham, H., Allen, N.,
 Anderson, S., Baldwin, J., Barna, N., Bastien, V., Beda, F.,
 Boguslavskiy, L., Boukhgalter, B., Brown, A., Burkett, G.,
 Campopiano, A., Castle, A., Choepel, Y., Colangelo, M., Collins, S.,
 Collymore, A., Cooke, P., Dearellano, K., Dewar, K., Diaz, J.S.,
 Dodge, S., Domino, M., Doyle, M., Ferreira, P., FitzHugh, W., Gage, D.,
 Galagan, J., Gardyna, S., Ginde, S., Goyette, M., Graham, L.,
 Grand-pierre, N., Grant, G., Hagos, B., Heaford, A., Horton, L.,
 Howland, J.C., Iliev, I., Johnson, R., Jones, C., Kann, L., Karatas, A.,
 Klein, J., LaRocque, K., Lamazares, R., Landers, T., Lehoczkay, J.,
 Levine, R., Lieu, C., Liu, G., Locke, K., Macdonald, P., Marquis, N.,
 McCarthy, M., McEwan, P., McGurk, A., McKernan, K., McPheeters, R.,
 Meldrim, J., Meneus, L., Mihova, T., Miranda, C., Mlenga, V., Morrow, J.,
 Murphy, T., Naylor, J., Norman, C.H., O'Connor, T., O'Donnell, P.,
 O'Neil, D., Oliver, T.M., Oliver, J., Peterson, K., Pierre, N.,
 Pisani, C., Pollara, V., Raymond, C., Riley, R., Rogov, P., Rotman, D.,
 Roy, A., Santos, R., Schauer, S., Severy, P., Spencer, B.,
 Stange-Thomann, N., Stojanovic, N., Subramanian, A., Talamas, J.,
 Tesfaye, S., Theodore, J., Tirrell, A., Travers, M., Trigilio, J.,
 Vassiliev, H., Viel, R., Vo, A., Willson, B., Wu, X., Wyman, D., Ye, W.J.,
 Young, G., Zainoun, J., Zimmer, A. and Zody, M.

TITLE

JOURNAL
 REFERENCE
 AUTHORS

Submitted (01-APR-2000) Whitehead Institute/MIT Center for Genome
 Research, 320 Charles Street, Cambridge, MA 02141, USA

3 (bases 1 to 169770)
 Birren, B., Linton, L., Nusbaum, C., Lander, E., Ali, A., Allen, N.,
 Anderson, S., Barna, N., Bastien, V., Boguslavskiy, L., Boukhgalter, B.,
 Brown, A., Camarata, J., Campopiano, A., Chang, J., Chazaro, B.,
 Choepel, Y., Colangelo, M., Collins, S., Collymore, A., Cooke, A.,
 Cooke, P., Dearellano, K., Dewar, K., Diaz, J.S., Dodge, S., Faro, S.,
 Ferreira, P., FitzHugh, W., Gage, D., Galagan, J., Gardyna, S.,
 Ginde, S., Gord, S., Goyette, M., Graham, L., Grand-pierre, N., Jones, C.,
 Hagos, B., Horton, L., Hulme, W., Iliev, I., Johnson, R., Jones, C.,
 Kamat, A., Karatas, A., Kells, C., LaRocque, K., Lamazares, R.,
 Landers, T., Lehoczkay, J., Levine, R., Liu, G., MacLean, C.,
 McEwan, P., McKernan, K., Meldrim, J., Meneus, L., Mihova, T.,
 Mlenga, V., Murphy, T., Naylor, J., Nguyen, C., Nicol, R., Norbu, C.,
 Norman, C.H., O'Connor, T., O'Donnell, P., O'Neill, D., Oliver, J.,
 Peterson, K., Phunkhang, P., Pierre, N., Pollara, V., Raymond, C.,
 Retta, R., Rieback, M., Riley, R., Rise, C., Rogov, P., Roman, J.,
 Rosettli, M., Roy, A., Santos, R., Schauer, S., Schupback, R., Seaman, S.,
 Severy, P., Spencer, B., Stange-Thomann, N., Stojanovic, N.,
 Straus, N., Subramanian, A., Talamas, J., Tesfaye, S., Theodore, J.,
 Topham, K., Travers, M., Travis, N., Trigilio, J., Vassiliev, H.,
 Viel, R., Vo, A., Willson, B., Wu, X., Wyman, D., Ye, W.J., Young, G.,
 Zainoun, J., Zembek, L., Zimmer, A. and Zody, M.

TITLE

JOURNAL
 COMMENT

Submitted (01-FEB-2002) Whitehead Institute/MIT Center for Genome
 Research, 320 Charles Street, Cambridge, MA 02141, USA
 On Jan 10, 2002 this sequence version replaced g1:13422062.
 All repeats were identified using RepeatMasker:
 Smit, A.F.A. & Green, P. (1996-1997)
 http://ftp.genome.washington.edu/RM/RepeatMasker.html
 ----- Genome Center

Center: Whitehead Institute/ MIT Center for Genome Research
 Center code: WIRB
 Web site: http://www-seq.wi.mit.edu
 Contact: sequence_submissions@genome.wi.mit.edu
 ----- Project Information
 Center project name: L8635
 Center clone name: 530_N_7

FEATURES

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 Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3819 aataataataaaagccacaaag 3842
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 Db 16959 AATATAATAATAAGCCACAAAG 16936

RESULT 14

AC040977 AC040977 173878 bp DNA linear HTG 05-SEP-2001
 LOCUS Homo sapiens chromosome 17 clone RP11-589p10 map 17, *** SEQUENCING
 DEFINITION IN PROGRESS ***, 7 unordered pieces.


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AC040977
VERSION 5 GI:15431174
HTG: HTGS_PHASE1; HTGS_FULLTOP; HTGS_ACTIVEFIN.
SOURCE human.
ORGANISM Homo sapiens
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 173878)
Birren,B., Linton,L., Nusbaum,C., Lander,E., Abraham,H., Allen,N.,
Anderson,S., Baldwin,J., Barna,N., Bastien,V., Beda,F.,
Boguslavsky,L., Bouckigalter,B., Brown,A., Burkett,G.,
Campopiano,A., Castle,A., Choelel,Y., Colangelo,M., Collins,S.,
Collymore,A., Cooke,P., DeArrellano,K., Dewar,K., Diaz,J.S.,
Dodge,S., Domino,M., Doyle,M., Ferreira,P., FitzHugh,W., Gage,D.,
Galagan,J., Gardyna,S., Ginde,S., Goyette,M., Graham,L.,
Grand-Pierre,N., Grant,G., Hagos,B., Heath,A., Horton,L.,
Howland,J.C., Iliev,I., Johnson,R., Jones,C., Kann,L., Karatas,A.,
Klein,J., Larocque,K., Lamazares,R., Landers,T., Lebecky,J.,
Levine,R., Liu,C., Liu,G., Locke,K., Macdonald,P., Marquis,N.,
McCarthy,M., McEwan,P., McGurk,A., McKernan,K., McPheeters,R.,
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Murphy,T., Naylor,J., Norman,C.H., O'Connor,T., O'Donnell,P.,
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Pisani,C., Pollara,V., Raymond,C., Riley,R., Rogov,P., Rothman,D.,
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Stange-Thomann,N., Stojanovic,N., Subramanian,A., Talamas,J.,
Tessaye,S., Theodore,J., Tirrell,A., Travers,M., Trigilio,J.,
Vassiliev,H., Viel,R., Vo,A., Wilson,B., Wu,X., Wyman,D., Ye,W.J.,
Young,G., Zainoun,J., Zimmer,A. and Zody,M.
Direct Submission
Submitted (11-APR-2000) Whitehead Institute/MIT Center for Genome
Research, 320 Charles Street, Cambridge, MA 02141, USA
On Sep 5, 2001 this sequence version replaced gi:14336616.
All repeats were identified using RepeatMasker:
Smith, A.F.A. & Green, P. (1996-1997)
http://ftp.genome.washington.edu/RM/RepeatMasker.html
----- Genome Center
Center: Whitehead Institute/ MIT Center for Genome Research
Center code: WIBR
Web site: http://www-seq.wi.mit.edu
Contact: sequence_submissions@genome.wi.mit.edu
----- Project Information
Center project name: L9393
Center clone name: 589_P_10
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* NOTE: This is a 'working draft' sequence. It currently
* consists of 7 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N. But the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.
*
* 1 28017: contig of 28017 bp in length
* 28018 28117: gap of 100 bp
* 28118 31285: contig of 3168 bp in length
* 31286 31385: gap of 100 bp
* 31386 77861: contig of 46476 bp in length
* 77862 77961: gap of 100 bp
* 77962 91856: contig of 13895 bp in length
* 91857 91956: gap of 100 bp
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Db 86976 AATAATAATAATAAAGCCACAAAG 86999
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sequence.
ACCESSION AC034192
VERSION AC034192.4 GI:12745080
KEYWORDS HTG.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 176217)
Xiong,H., Zhou,Y., Dong,H., Lin,W., Chen,B., Zhang,C., Zhang,Y.,
Cai,Z., Ying,H.F., Wang,H., Gu,W., Zhu,G., Tu,Y., Zhang,X., Jia,J.,
Shen,H., Zhang,D., Wu,C., Lu,G., Zhong,M., Jiang,H., Ren,S., Fu,G.,
Chen,Z. and Huang,M.
Chromosome 3p genomic sequence
Unpublished
2 (bases 1 to 176217)
Sun,Y., Hu,S., Dong,W., Wang,J., Zhang,Y., Zhang,H., Liu,B., Bao,W.,
Li,T., Zhang,H., Liu,N., Wu,D., Yu,B., Fan,H., Liu,Y., Li,G.,
Li,C., Bao,Q., Wang,J., Wang,X., Song,L., Zhang,L., Guo,D.,
Huang,F., Zhang,G., Li,J., Bian,X., Zhang,M., Li,L., Feng,X., Yu,J.
and Yang,H.
Direct Submission
Submitted (05-APR-2000) Human Genomic Center, Institute of
Genetics, Chinese Academy of Sciences, Datun Road, Beijing
100101, P.R.China
3 (bases 1 to 176217)
Bao,J., Bao,Q., Bao,W., Bian,X., Cao,T., Chen,C., Chen,J., Ding,H.,
Dong,W., Fan,H., Feng,X., Gong,J., Guan,Q., Gu,X., Guo,D., Guo,Z.,
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Li,G., Li,J., Li,L., Li,S., Li,T., Liu,Y., Liu,N., Liu,B., Liu,Y.,
Li,W., Li,W., Li,Y., Luo,C., Luo,J., Niu,Y., Qi,Q., Qi,X., Song,L.,
Song,S., Sun,M., Sun,W., Sun,Y., Tan,X., Tao,R., Wang,H., Wang,J.,
Wang,J., Wang,L., Wang,L., Wang,R., Wang,X., Wang,X., Wang,X.,
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Yu,B., Zeng,Y., Zhang,G., Zhang,H., Zhang,L., Zhang,L., Zhang,M.,
Zhang,X., Zhang,X., Zhang,Y., Zhang,Y., Zhang,Z., Zhu,B., Zhu,N.,
Yu,J. and Yang,H.
Direct Submission
Submitted (11-FEB-2001) Human Genomic Center, Institute of
Genetics, Chinese Academy of Sciences, Datun Road, Beijing
100101, P.R.China
On Feb 11, 2001 this sequence version replaced gi:8101214.
-----Genome Center
Center:Beijing Center
Center code:Beijing
Website:http://hgci.igtp.ac.cn
http://www.genomics.org.cn
Contact:hgci@igtp.ac.cn
----- Project Information
Center project name:ig project

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Center clone name: RP11-416N8
 ----- Summary Statistics
 Sequencing vector: pUC18; 100% of reads
 Chemistry: Dye-terminator: ET 55% of reads
 Assembly: Dye-terminator Big Dye; 45% of reads
 Assembly program: Phrap; version 0.990329
 Consensus quality: 179317 bases at least Q40
 Consensus quality: 179556 bases at least Q30
 Consensus quality: 179718 bases at least Q20
 Insert size: 176217; sum-of-contigs
 Quality coverage: 10.64x in Q20 bases; sum-of-contigs

FEATURES
 source

Location/Qualifiers
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 /db_xref="taxon:9606"
 /chromosome="3"
 /map="3p"
 /clone="RP11-416N8"

BASE COUNT 55712 a 32095 c 32227 g 56183 t
 ORIGIN

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 Best Local Similarity 100.0%; Pred. No. 0.4;
 Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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